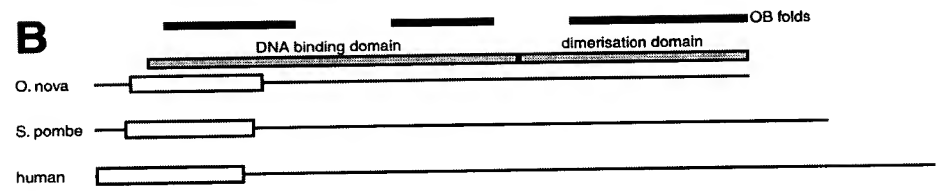


FIGURE 1

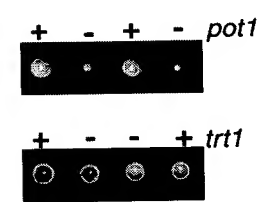
A

Ec	4	QKAAKDDHYQMSDLSSIKKEGEEDQVHFYGVVIDASFYKQ---EKRYVVTCKVADPSSVAK---	
Sm	25	KKREQSTRMKYVELNKASLTS-AEAOHFYGVVIDATFPYKTN--QERYICSLKVVDPSLYLKSQK	
Ot	28	KKAEKGSKYEYVELTKAQLTS-VTAOHFYAVVIDATFPYKTN--QERYICSLKIVDPSLYLKKEK	
On	28	KKSDKGHKYEYVELAKASLTS-AQPQHFYAVVIDATFPYKTN--QERYICSLKIVDPTLYLKQOK	
Hs	1	MSLVPATNMIYTPLNQLKGGT---IVNVYGVVKFFKPPYLSK--GTDYCSVVTIVDQT-----	
Sp	21	KIGELTFQSISSQELQKNT---IVNLFQIVKDFTPSRQSLHGTDKDWVTVMWDPDTS---	
Ec		--GGKLNTVNVVFSSQNFEDLPILQRVGDIVRVHRARLQHYNOAKOLNVNMYR-SSWCLFI	121
Sm		GTGDASDYATLVLYAKRFEDLPILHRIGDIIRVHRATLRLYNGQROFNANVFYN-SSWALFS	147
Ot		GTGDNSDYATLVLYAKRFEDLPILRLGDIIRVHRATLRLYNGQROFNANVFYS-SSWALFS	150
On		GAGDASDYATLVLYAKRFEDLPILHRAGDIIRVHRATLRLYNGQROFNANVFYS-SSWALFS	150
Hs		-----NVKLTCLLFSGNYEALPIIKNGDIVRFHRLKIQVYKKEGOGITSSGFA-SLTPEGT	109
Sp		-----SIGLOTHLFSKQGNLDPVIKQVGQPLLLHQITLRSYDRTOGLSKDQERYALPDFS	137

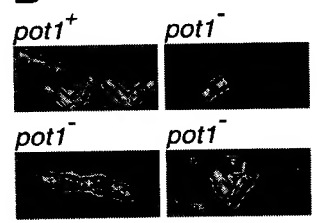
B



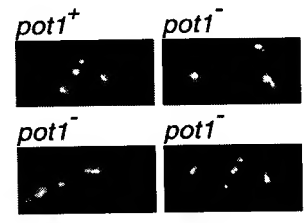
C



D



E



00616243.032604

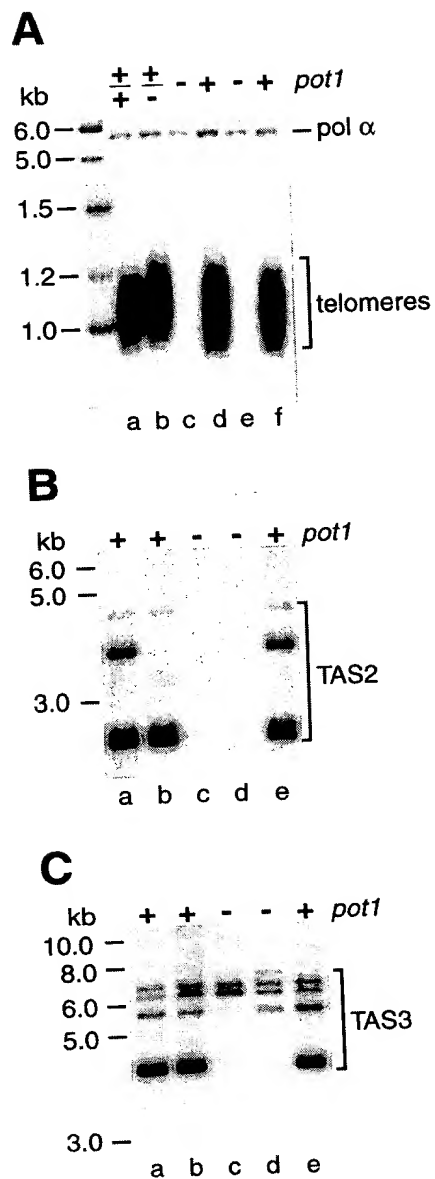


FIGURE 2

002540614.4

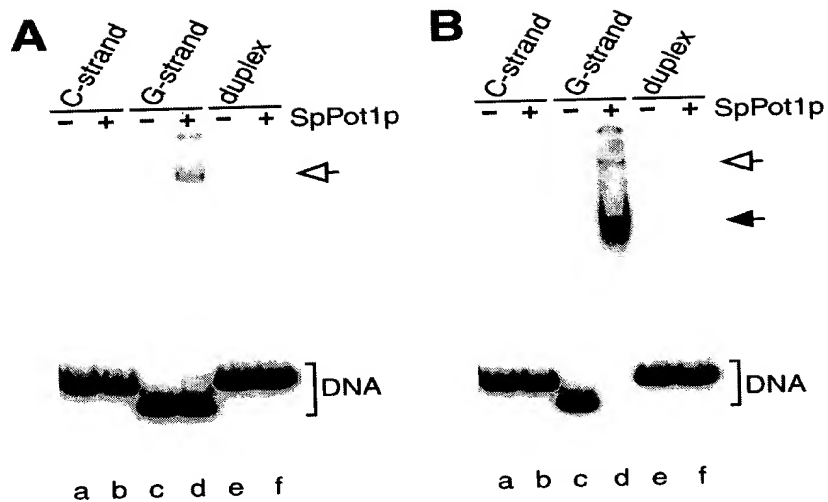


FIGURE 3

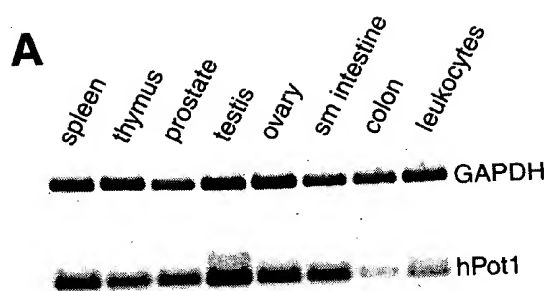


FIGURE 4

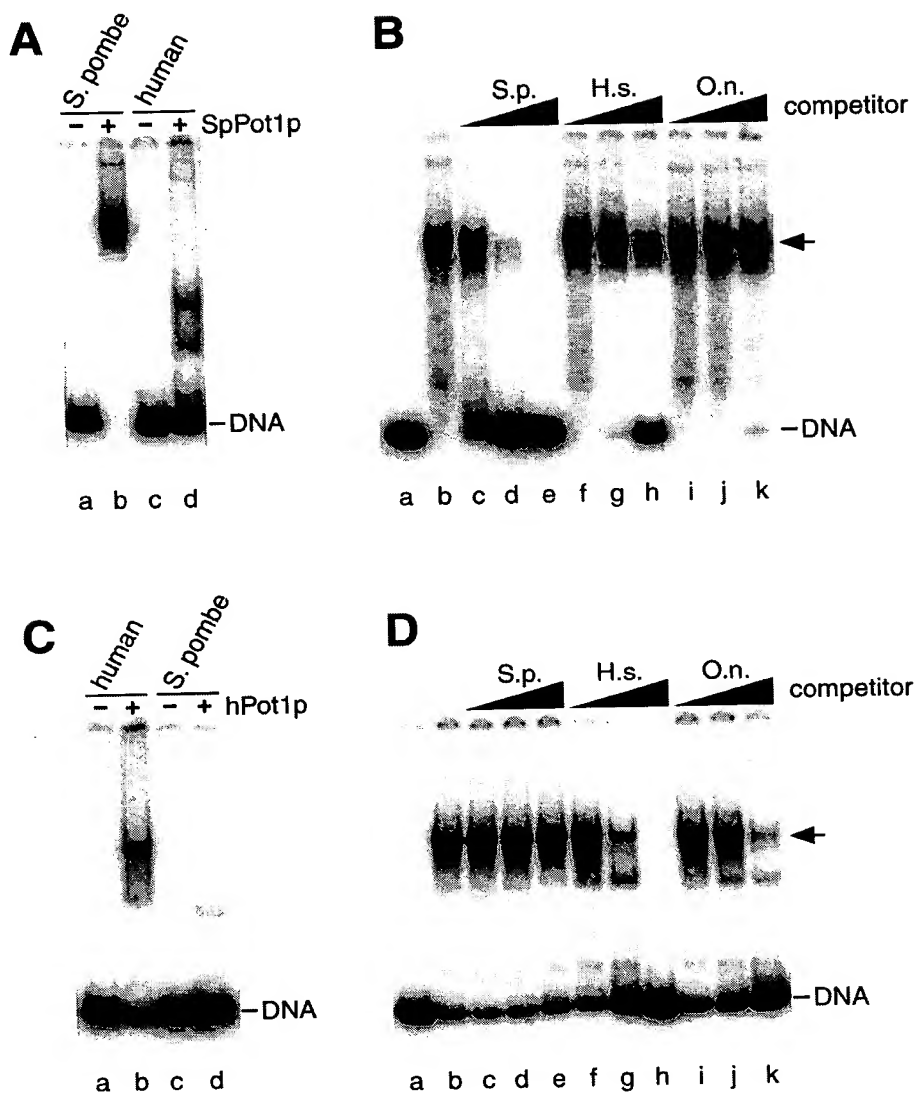


FIGURE 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 6

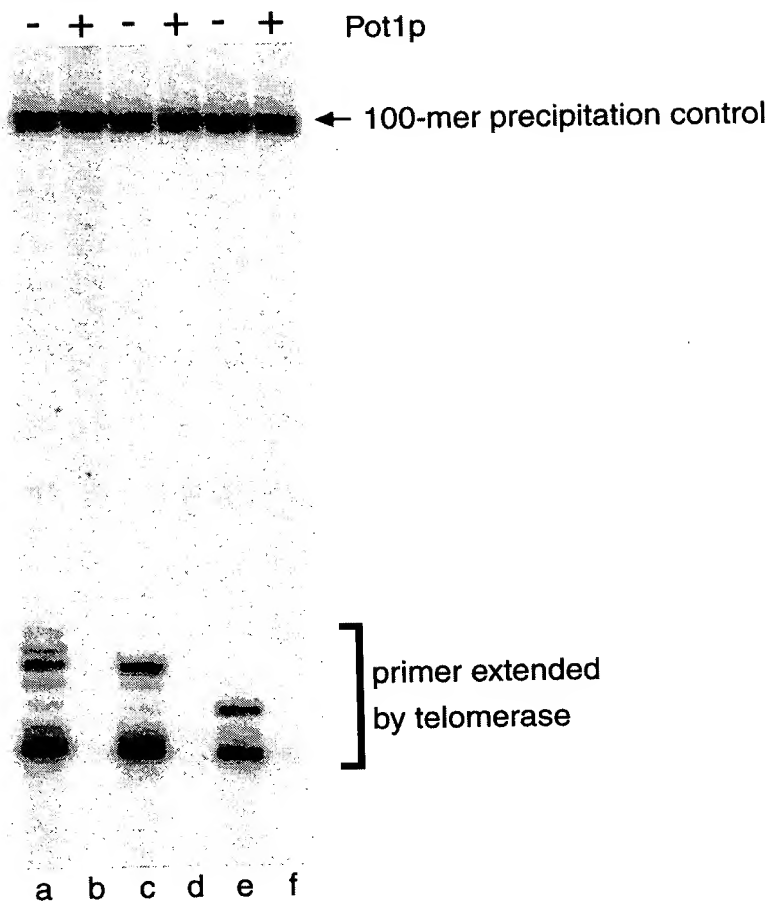


FIGURE 7

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tgatgcaaaa	agccatgctg	tcaaccttaa	aaagtata	cgccattccc	gatgatgtac	13020
cccctcctta	tictgagttt	gctgatgata	cgacagcgca	agctggttct	agtaaaagag	13080
atagcgctat	atctgaagat	cccgatcatc	acaaaagtgt	ttggtggtct	ttgagatggc	13140
aatctcggtc	tggttgctgt	ggaaaatcta	ctgctcttac	tcctgaagaa	accagagcaa	13200
tacaggagca	ggcaaaagaca	ctgaaaaagg	caggaatgga	ctttatgcta	ttctctttct	13260
ggttacctgc	cctacttttg	ctgagtatct	ttggtcttcg	aagctatgct	caaatgatcg	13320
ggggatattt	atatcgctgc	ataattggca	tttaggtttg	acgaacaacc	atgcatgttt	13380
ttttctttct	tttagtttta	ttcttttttg	tagattatga	gcaaaactact	gtcaaaactt	13440
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tccttgatact	cgcaaaactc	tttcaataat	agcctagcag	aaactgggat	atgtctaaag	13860
ttttacaact	gcgctcagct	taaggacttt	acggcgatcc	atttaatagc	tagccatgaa	13920
cactcataac	ctcaagattg	aggagtgggt	cattcttttg	cttgataaag	aaacaaattc	13980
attattggta	aaataaaact	gaataaccct	tagttcatcc	taggaatttg	aagaagggga	14040
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ctttcaaggg	gttgtcttgg	tttataaaag	atatttggat	ttccatttagg	tttctgagaa	14160
aggctaaaac	tcattttgtg	ttcttaaaag	atatttggat	cattcggttg	tcaagcatgg	14220
gagaggacgt	tattgacagt	cttcagttga	atgagttatt	aaatgctgga	gaatataaga	14280
ttggagtgg	atatcaatgg	ttttatattt	gttttgctaa	caatgaaaaa	ggaacttaca	14340
tttcagttcca	ttagaagctc	tcaagaatta	caaaagaaga	atactattgt	caatttgttt	14400
ggaatagtaa	aagattttac	ccctagtcgc	caaagtctac	atggaactaa	gggtatgctt	14460
gcttatcatg	gtggaaacta	tactttttat	ttttccagtc	aagagctaat	aatcatgttt	14520
ttagattggg	taaccaccgt	atatttgtgg	gatccaacat	gtgatacatc	aagcatcgga	14580
ctacagatac	acttggttcag	caaacaggga	aatgatttgc	ctgtaatcaa	gcaggtgggg	14640
caaccgcgtt	tgcttcagata	tgcaacttta	agaagttata	gagacaggac	tcaaggtttg	14700
tctaagggat	aatttcgata	tgcaacttta	ccagactttt	cttctaattc	caaagatact	14760
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ttgttggttaa	ataaaatttg	ggatggagcaa	actaataaac	ataaaaatgg	cgaattattg	14880
agtagctctt	ctgctcgtca	aaatcaaaact	ggattgagtt	acccttctgt	ctctttttct	14940
ctgctatcac	aaataactcc	acatcaacgt	tgtagctttt	acgctcaggt	aattaaaact	15000
tggtacagtg	ataaaaactt	tactctttat	gtcactgatt	atcacgaaaa	tgagcttttt	15060
tttccaatgt	ctccgtatac	tagctcctcg	agatggaggg	gcccttttgg	tcggttttct	15120
ataaggtgca	ttttatggga	tgagcacgac	ttttactgcc	gcaactacat	ttaaagaagg	15180
gactatgtgg	gggattcagc	aaaacggtat	aaaattgata	accttggtta	tctggaatgt	15240
atacttcattg	taaacgaaat	taagtacagt	aaaagccttt	tagaaaaagt	cgatttcggaa	15300
gaacccgaac	cagtaatcga	gaaactcagt	caaagccaac	atgttcagaa	tgcccaaaat	15360
ggatgaag	taaagcaaac	ttctgttaat	gaaattacgg	aatcggaata	tccttttatc	15420
gccccatgaat	aattgactac	tatttctacc	atacttcattg	cccatgtcat	aatgaacctt	15480
gctagtgttaa	aacataggct	acgcgttcag	gtggtagatt	caccttttgc	gaatcttctc	15540
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cagtttgctg	cgaatgtgac	tttaccggtc	atattttttg	gaggtgttgc	cttgctcgta	15660
agggatgtat	caaaaatcca	accttgcaat	ttagctgac	attctgacgc	tgcggaactt	15720
attaacagct	gattatttct	gatttggggg	aacttggaa	acccgcagat	gactcttcag	15780
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cttcagaagc	gctggcgagg	atttggcacg	aaaattgttt	accatcaatc	tttgactttt	15960
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aagctctata	ttgggagaat	tttataaagc	gagcgaattt	acaatatatta	aatttaagga	16080
ggggaaacgt	gaaatatcta	attgcttaga	ctttatataa	gtactaagga	aaaacacaga	16140
tagaaatttaa	ttacaaaaat	aataaggatt	ggtttgatgt	catcaacttc	gaaataatct	16200
ggctttttgct	tagaagttgc	aagtgttgag	gcatcatcat	atggtgggta	catctaagca	16260
aatagagctt	gatgctcatc	ggcactgcca	tgaataatat	cactttcatc	gtcaacagcg	16320
ggagcgtcat	gatgcagatg	caaaactatc	tttgagagag	gaggggttgc	tgagagatga	16380
tctacatctt	gagcaacttg	ctcactcatt	cgcaaacgac	aggaagtcac	ctcaaaactc	16440
cacaagtaca	aaatggtaag	catcaagatc	aaaacaagaa	ggttattctc	ggtaggacgc	16500
aggaacccaaa	gaagtttcca	gtattttaag	taatagttca	tatcagtgta	tccgtaatta	16560
aaaatggcct	tggtgcgac	aatcgaaagc	taagcgacaa	tttgaccgta	gataccaatc	16620
caaagacgag	tatacatctg	agccttaaca	gtttgcttac	tgccaaaaca	tataacaatc	16680
gtattatttta	aagccaatac	aatccaaaag	aacatagcga	gaatacggag	atcacgaatt	16740
ggagcggcaa	acaaaatgac	caaagactct	ttattagatg	agaggggtgat	taaaaagaca	16800
aagaaaaagc	atgaagaaac	gaactgcaaa	ccagcaagaa	ggctaatagaa	caaagatgac	16860
				tttgacactt	acgaagaaga	16920
						16980

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 8A

gattgaggagtgggtcattctttgcttgataaagaacaaattcattattggtaaaataaaactgaataacccttagttcatccttaggaattgaagaagggg
 aatgatcaagcttgaacaagtaactctcacgcagtcattgaataatctgaagggttcacactttcaaggggttgcttggtttaaaaagctttaccaattcca
 tttaggtttctgagaaggctaaaactcattgttggttcttaaggatattggatcattcgtgatcaagcATGGGAGAGGACGTTATTGA
 CAGTCTTCAGTTGAATGAGTTATTAATGCTGGAGAATATAAGATTGGGAGAACTTACATTT
 CAGTCCATTAGAAGCTCTCAAGAATTACAAAAGAAGAATACTATTGTCAATTTGTTTGGAA
 TAGTAAAAGATTTTACCCCTAGTCGCCAAAGTCTACATGGAACCTAAGGATTGGGTAACCA
 CCGTATATTTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACACTTGTT
 CAGCAAACAGGGAAATGATTTGCCTGTAATCAAGCAGGTGGGGCAACCGCTTTTGCTTCA
 TCAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTTGTCTAAGGATCAATTTGCA
 TATGCACTTTGGCCAGACTTTTCTTCTAATTCCAAAGATACTCTCTGTCCTCAACCAATGCC
 TCGTTTAATGAAAACGGGAGACAAGGAAGAGCAATTCGCCTTGTTGTTAAATAAAATTTG
 GGATGAGCAAATAATAACATAAAAAATGGCGAATTATTGAGTACCTCTTCTGCTCGTCA
 AATCAAACCTGGATTGAGTTACCCTTCTGTCTCTTTTTCTCTGCTATCACAAATAACTCCACA
 TCAACGTTGTAGCTTTTACGCTCAGGTAATTAACAACTGGTACAGTGATAAAAACTTTACT
 CTTTATGTCACTGATTATACGGAATAATGAGCTTTTTTTTCCAATGTCTCCGTATACTAGCTC
 CTCGAGATGGAGGGGCCCTTTTGGTCGGTTTTCTATAAGGTGCATTTTATGGGATGAGCAC
 GACTTTTACTGCCGCAACTACATTAAGAAGGTGACTATGTGGTTATGAAAAATGTGCGAA
 CCAAATTGATCACCTTGGTTATCTGGAATGTATACTTCATGGGGATTCAGCAAAACGTTA
 TAATATGAGTATAGAAAAAGTCGATTCGGAAGAACCCGAACCTAAACGAAATTAAGTCACG
 TAAAAGGCTTTATGTTTCAAGATTGCCAAAATGGTATAGAAGCAGTAATCGAGAACTCAG
 TCAAAGCCAACAATCGGAAAATCCTTTTATCGCCCATGAATTAAGCAAACTTCTGTAAAT
 GAAATTACGGCCCATGTCATAAATGAACCTGCTAGTTTAAAATTGACTACTATTTCTACCA
 TACTTCATGCACCTTTGCAGAATCTTCTCAAACCGAGGAAACATAGGCTACGCGTTCAGGT
 GGTAGATTTTTGGCCAAAGAGTTTGACGCAGTTTGCTGTGCTATCTCAACCACCATCTTCG
 TATGTTTGGATGTTTGCCTTGCTCGTAAGGGATGTATCGAATGTGACTTTACCGGTCATATT
 TTTTGATTCTGACGCTGCGGAACCTATTAACAGCTCAAAAATCCAACCTTGCAATTTAGCT
 GATCACCCGCAGATGACTCTTCAGCTTAAAGAAAGATTATTTCTGATTTGGGGGAACTTGG
 AAGAACGCATTACGATCACATATCGAAGGGTGAATCGCCAACTCTGGCTGCTGAAGATG
 TTGAAACACCATGGTTTGATATATATGTCAAAGAATACATTCCTGTAATTGGGAACACCAA
 AGACCATCAATCTTTGACTTTTCTTCAGAAGCGCTGGCGAGGATTTGGCACGAAAAATTGTT
 TGActattgtgataaaaacttacaataatgaatgcttacgaaaagaacataagaaaaacaattttaaataggaagctctatattgggagaat
 ttataaagcgagcgaattgtactaaggaaaaacacaga

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 8B

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKKNTIVNLFGIV
 KDFTPSRQSLHGTDWVTTVYLWDPTCDTSSIGLQIHLFSKQGNDLPVI
 KQVGQPLLLHQITLRSYRDRTQGLSKDQFRYALWPDFSSNSKDTLCPQP
 MPRLMKTGDKEEQFALLLNKIWDEQTNKHKNGELLSTSSARQNQTGLSY
 PSVSFSLLSQITPHQRCSFYAQVIKTWYSDKNFTLYVTDYTENELFFPM
 SPYTSSSRWRGPFGRFSIRCILWDEHDFYCRNYIKEGDYVVMKNVRTKI
 DHLGYLECILHGDSAKRYNMSIEKVDSEEPELNEIKSRKRLYVQNCQNG
 IEAVIEKLSQSQQSENPFIAHELKQTSVNEITAHVINEPASLKLTTIST
 ILHAPLQNLKPRKHRLRVQVDFWPKSLTQFAVLSQPPSSYVWMFALL
 VRDVSNVTLPVIFFDSAAELINSSKIQPCNLADHPQMTLQLKERLFLI
 WGNLEERIQHHISKGESPTLAAEDVETPWFDIYVKEYIPVIGNTKDHQS
 LTFLQKRWRGFGTKIV

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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 8C

ATGGGAGAGGACGTTATTGACAGTCTTCAGTTGAATGAGTTATTAATGCTGGAGAATATA
 AGATTGGAGAACTTACATTTTCAGTCCATTAGAAGCTCTCAAGAATTACAAAAGAAGAATA
 CTATTGTCAATTTGTTTGGGAATAGTAAAGATTTTACCCCTAGTCGCCAAAGTCTACATGG
 AACTAAGGgtatgcttgcttatcatggtggaactatactttttttccagtaagagtaataatcatgttttagATTGGGTAACCAC
 CGTATATTTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACACTTGTTTC
 AGCAAACAGGGAAATGATTTGCCTGTAATCAAGCAGGTGGGGCAACCGCTTTTGCTTCAT
 CAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTTGTCTAAGGATCAATTTTCGAT
 ATGCACTTTGGCCAGACTTTTCTTCTAATTCCAAAGATACTCTCTGTCTCAACCAATGCCT
 CGTTTAATGAAAACGGGAGACAAGGAAGAGCAATTTCGCCTTGTTGTTAAATAAAAATTTGG
 GATGAGCAAATAAATAACATAAAAAATGGCGAATTATTGAGTACCTCTTCTGCTCGTCAAA
 ATCAAACCTGGATTGAGTTACCCTTCTGTCTCTTTTTCTCTGCTATCACAAATAACTCCACAT
 CAACGTTGTAGCTTTTACGCTCAGGTAATTAAGCTTGGTACAGTGATAAAAACTTTACTC
 TTTATGTCACTGATTATACGGAAAATGAGCTTTTTTTTCCAATGTCTCCGTATACTAGCTCC
 TCGAGATGGAGGGGCCCTTTTGGTCGGTTTTCTATAAGGTGCATTTTATGGGATGAGCACG
 ACTTTTACTGCCGCAACTACATTAAGAAGGTGACTATGTGGTTATGAAAAATGTGCGAAC
 CAAAATTGATCACCTTGGTTATCTGGAATGTATACTTCATGGGGATTCAGCAAAACGTTAT
 AATATGAGTATAGAAAAAGTCGATTTCGGAAGAACCCGAACATAACGAAATTAAGTCACGT
 AAAAGGCTTTATGTTTCAGAATTGCCAAAATGGTATAGAAGCAGTAATCGAGAAACTCAGT
 CAAAGCCAACAATCGGAAAATCCTTTTATCGCCCATGAATTAAGCAAACCTCTGTTAATG
 AAATTACGGCCCATGTCATAAATGAACCTGCTAGTTTAAAATTGACTACTATTTCTACCAT
 ACTTCATGCACCTTTGCAGAACTTCTCAAACCGAGGAAACATAGGCTACGCGTTCAGGTG
 GTAGATTTTGGCCAAAGAGTTTGACGCAGTTTGCTGTGCTATCTCAACCACCATCTTCGT
 ATGTTTGGATGTTTGCCTTGCTCGTAAGGGATGTATCGAATGTGACTTTACCGGTCATATTT
 TTTGATTCTGACGCTGCGGAACTTATTAACAGCTCAAAAATCCAACCTTGCAATTTAGCTG
 ATCACCCGCAGATGACTCTTCAGCTTAAAGAAAGATTATTTCTGATTTGGGGGAACCTTGA
 AGAACGCATTACAGATCACATATCGAAGGGTGAATCGCCAACTCTGGCTGCTGAAGATGT
 TGAAACACCATGGTTTGATATATATGTCAAAGAATACATTCCTGTAATTGGGAACACCAAA
 GACCATCAATCTTTGACTTTTCTTCAGAAGCGCTGGCGAGGATTGGCACGAAAATTGTTT
 GA

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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 8D

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKNTIVNLFQIV
 KDFTPSRQSLHGTKGMLAYHGGNYTFYFSSQELIIMFLDWVTTVYLWDP
 TCDTSSIGLQIHLSKQGNLDPVIKQVGQPLLLHQITLRSYRDRTQGLS
 KDQFRYALWPDFSSNSKDTLCPQMPRLMKTGDKEEQFALLLNKIWDEQ
 TNKHKNGELLSTSSARQNQTGLSYPSVSFSLLSQITPHQRCSFYAQVIK
 TWYSDKNFTLYVTDYTENELFFPMSPYTSSSRWRGPFGRFSIRCILWDE
 HDFYCRNYIKEGDYVVMKNVRTKIDHLGYLECILHGDSAKRYNMSIEKV
 DSEEPELNEIKSRKRLYVQNCQNGIEAVIEKLSQSQQSENPFIAHELKQ
 TSVNEITAHVINEPASLKLTTISTILHAPLQNLLKPRKHRLRVQVVDWF
 PKSLTQFAVLSQPPSSYVWMFALLVRDVSNVTLPVIFFDSDAAELINSS
 KIQPCNLADHPQMTLQLKERLFLIWGNLEERIQHHSKGESPTLAAEDV
 ETPWFDIYVKEYIPVIGNTKDHQSLTFLQKRWRGFGTKIV

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T062E0 3429T860

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9A

ATGTCTTTGGTTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA
 CAATTGTCAATGTCTATGGTGTGTGAAGTTCTTTAAGCCCCCATATCTAAGCAAAGGAAC
 TGATTATTGCTCAGTTGTAAGTATTGTGGACCAGACAAATGTAAACTAACTTGCCTGCTC
 TTTAGTGGAACATATGAAGCCCTTCCAATAATTTATAAAAAATGGAGATATTGTTTCGCTTTC
 ACAGGCTGAAGATTCAAGTATATAAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG
 CATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCTATCATACCTCGCACTTCAAGCAAGTA
 TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT
 CATATGTCACCGTCTTGGACATTACTAAAATTTGTGTGATGTTAGCCAATGCAGTATTTTG
 ACCTGACTTGTGAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT
 ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTT
 GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG
 ATAACCATGTTTATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT
 TCATACCAAATCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT
 CTTTATGGAGGTACAGTTACGGTTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT
 GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTTCAGAT
 GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACG
 AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGA
 GGACACCACTATGTGCCATTTTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA
 AATTGAGGTCATATAAGCCCAGAAAGACTATTTAGTCTGTAAACTTCATTGCCCTAAATG
 TCATTTGCTGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCA
 ACTAAAAACCCAGTTGTCAAGTTACAAAATACATCATTATATGATTCAAAAATCTGGACCA
 CTAATAATCAAAAAGGACGAAAAGTAGCAGTTTCTTTGTGAAAAATAATGGTATTCTCC
 CGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTCAGTGAAATTTGCAAACT
 CTCGAACAAGTTTAATAGTGTAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACCTTTG
 GACCTTTCAGCACCATTCTTATACAAGGAACAATACATCACTATGGATGTAAACAGTGTT
 CTAGTTTGAGATCCATACAAAATCTAAATTCCTGTTGATAAAACATCGTGGATTCTTCA
 TTCTGTGGCAGAAGCACTGGGTATTGTACCCCTCCAATATGTGTTTGTATGACCTTTACA
 CTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATGGATTCTGACAAATTTCTCCAGA
 TTCCAGCATCAGAAGTTCTGATGGATGATGACCTTCAGAAAAGTGTGGATATGATCATGGA
 TATGTTTTGTCCTCCAGGAATAAAAATGATGCATATCCGTGGTTGGAATGCTTCATCAAG
 TCATACAATGTCACAAATGGAACAGATAATCAAATTTGCTATCAGATTTTGGACACCACAG
 TTGCAGAAGATGTAATCTAA

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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 9B

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLCLKCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSPWRV
LIQDLVLEGDLSHIHLRLQNLTIDILVYDNHVVHVARSLKVGSLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFPSGVSLSYEVEERCQQLSATILTDHQYL
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEV
HEGDLDIIFQDGATKTPVVKLQNTSLYDSKIWTTKNQKGRKVAVHFKV
NGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDL
PFLIQGTIHHYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQ
YVFVMTFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDDDLQKSVD
MFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVI

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FIGURE 9C

ATGTCTTTGGTTCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA
 CAATTGTCAATGTCTATGGTGTGTGAAGTTCTTTAAGCCCCATATCTAAGCAAAGGAAC
 TGATTATTGCTCAGTTGTAACATTGTGGACCAGACAAATGTAAACTAACTTGCCTGCTC
 TTTAGTGGAACATATGAAGCCCTTCCAATAATTTATAAAAAATGGAGATATTGTTTCGCTTTC
 ACAGGCTGAAGATTCAAGTATATAAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG
 CATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCCATCATACCTCGCACTTCAAGCAAGTA
 TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT
 CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTTCAGCCAATGCAGTATTTTG
 ACCTGACTTGTGAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT
 ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTT
 GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG
 ATAACCATGTTTCATGTGGCAAGATCTCTGAAGGTGGAAGCTTTCTTAGAATCTATAGCCT
 TCATACCAAACCTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT
 CTTTCATGGAGGTACCAAGTTACGGTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT
 GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTGAGAT
 GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAATGGAGTCTCGCTTCGTCCTCCAG
GCTGGAGTTCAGTGGCACGGTCTCGGCTCATTGCAGCCTCCACCTCCTGAGTTCAAGCTTC
TCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCTCTGGATCAGTATCATTATACGAG
 GTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGAGG
 ACACCACTATGTGCCATTTTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAAAA
 TTGAGGTATATAAGCCCAGAAAGACTATTTAGTCTGTAAACTTCATTGCCCTAAATGTC
 ATTTGCTGCAAGAAGTTCCACA

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APPROVED	C.G. FIG.	
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FIGURE 9D

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLCLKCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSPWRV
LIQDLVLEGLSHIHRLQNLTIDILVYDNHVVHVARSLKVGSFLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFPNGVSLRPPGWSSVARSRLIAASTS

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APPROVED	O.G. FIG.	
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FIGURE 9E

ATGTCTTTGGTTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA
 CAATTGTCAATGTCTATGGTGTGTGAAGTCTTTAAGCCCCCATATCTAAGCAAAGGAAC
 TGATTATTGCTCAGTTGTAAGTATTGTGGACCAGACAAATGTAAACTAACTTGCTGCTC
 TTTAGTGGAAGTATGAAGCCCTTCCAATAATTTATAAAATGGAGATATTGTTGCTTTT
 ACAGGCTGAAGATTCAAGTATATAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG
 CATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCTATCATACCTCGCACTTCAAGCAAGTA
 TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT
 CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTTCAAGCAATGCAGTATTTT
 ACCTGACTTGTGAGCTCTTGGGCAAGCAGAAAGTGGACGGAGCATCATTCTTCTAAAGGT
 ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTT
 GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG
 ATAACCATGTTTATGTGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT
 TCATACCAAACTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT
 CTTTATGGAGGTACAGTTACGGTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT
 GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAAATTTGACAGCCAATCAGCATTCAGAT
 GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACG
 AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGA
 GGACACCACTATGTGCCATTTTGAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA
 AATTGAGGTCATATAAGCCCAGAAAGTATTTTCAAGTCTGTTAACTTTCATTGCCCTAAATG
 TCATTTGCTGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCA
 ACTAAAACCCCAAGTGTCAAGCTACAAAATACATCATTATATGATTCAAAAATCTGGACC
 ACTAAAAATCAAAAAGGACGAAAAGTAGCAGTTTCAATTTGTGAAAAATAATGGTATTCTC
 CCGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTCAGTGAAATTTGCAAC
 TCTCGAACAAGTTTAATAGTGAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACCTTT
 GGACCTTTCAGCACCATTTCTTATACAAGGAACAATACATCACTATGGCACTGGGTATTGT
 ACCCTCCAATATGTGTTTATGACCTTTACACTTGATGATGGAACAGGAGTACTAGAA
 GCCTATCTCATGGATTCTGACAAATTTCCAGATTCCAGCATCAGAAGTTCTGATGGATG
 ATGACCTTCAGAAAAGTGTGGATATGATCATGGATATGTTTGTCTCCAGGAATAAAAT
 TGATGCATATCCGTGGTTGGAATGCTTCATCAAGTCATACAATGTCACAAATGGAACAGAT
 AATCAAATTTGCTATCAGATTTTGGACACCACAGTTGCAGAAGATGTAATCTAA

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FIGURE 9F

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLTFEGLTGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSPWRV
LIQDLVLEGLDLSHIHLQNLTLIDILVYDNHVVHVARSLKVGSFLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFSSGSVSLYEVEERCQQLSATILTDHQYL
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEV
HEGDLDIIFQDGATKTPDVKLQNTSLYDSKIWTTKNQKGRKVAVHFVKN
NGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDL
SA
PFLIQGTIHHYGTGYCTPPIVCYDLYT

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FIGURE 10D

[illegible]

APPROVED	O.G. FIG.	
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FIGURE 10F

agagtattattttgtttaaatggtaaactgcctttttgtttttagATGCATATCCGTGGTTGGAATGCTTCATCAAG
TCATACAATGTCACAAATGGAACAGATAATCAAATTTGCTATCAGATTTTTGACACCACAGT
TGCAGAAGATGTAATCTAAAtattgccatccaatttagcacataaaaatgtgccactcacctccctgttgagctcttttctgacctga
gtttgtatcagcaatgtgatgttagcatgggtatgggtagaanaatgtcctacctaatactctggctttactgggtgcaaggtaanaatggcta
tggattttgtttgctttgtttgtttgtacaagagacctgcttaacaagtactgtgagataagtgtctgatcaagctacagtgtactttaagtagaat
ggcaaagtgcctgttggtgggtgctgatactgatgttttaggataaattcattctttaaactgtatacatggttttattgctgtttctcaggatagtaga
gattctctatttcacctcaacctaaataaagtggcagatttataatgttaactgacttaataattatcctttctaagtctcatgtaaaatagccgctattacaac
ttacaactaattgaatgagatgttaacttagtaaaatagttgattttacgtgacagtgtttgtcaatttaaaatcatgaatttcaatttatacaaacatttat
atatatatagatttgtatgtatttgcacagacagataaaattacgtgttataattagtgagaataaataagtgcacacatttcaactgtttcatttat
ttgccctaagttagctgaaaaatgatagaggcaagaatcgaatagggtggcaatgcagcagatgttagggctgtctacatccagggtactgtgc
taagcactaaacatgtatttgatcctcacagcaacctattttccgataagaaatctgaggctgtgattgataagctgacttgactaagttcacacagttgta
aagctagagtctgtgccttaattcacataatctctattcagagcctgtactgttaaccactcaaggattctggaacagaagctaacagttttctgcaacgagt
cttgacttaaacatctgaataacattggaatagattataagaggagtcagtgtgtttctatagttcaaaatacttttaacatcttattgtcaaaaagattg
gataactgactttctgtcataataactctaaattctagttcctgagtacattaacacatctctttacctaactaccaatgtcccatcatcgacttatcagc
ttgttgagacaatgagaaagactgattttattcaagaatatagactcttggtcaaaacatttcaggaaaaatatttaaaacctacagtgaacagggtg
tgttccgtgttgatgtgtcagagatacaagggtgaataaacattttctgcctcagggaagccctcaatctagaagagtagagggtccaaagggtgcc
atatgtcacactgtgagcctgcaagatctccacgttaacaaaggaaaactcttctatgaatcttcatgatgatagg

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FIGURE 10G

Alternative forms of hPot1

partial genomic DNA lacking N-terminus

5	6	7	8	9	10	11	12	13+3'UTR
(119)	(56)	(156)	(205)	(135)	(88)	(91)	(105)	(112+702)

splice variant #1: 72kDa protein lacking exon 5

splice variant #3: 38kDa protein containing exon 5

splice variant #4: 58kDa protein lacking exons 5 and 10